

US009638403B1

(12) United States Patent

Marshal

(10) Patent No.: US 9,638,403 B1 (45) Date of Patent: May 2, 2017

(54) LED STREET LIGHT CONFIGURED FOR TOOL-LESS INSTALLATION AND A METHOD OF INSTALLATION

(71) Applicant: AMLED TECHNOLOGIES, INC.,

Alsip, IL (US)

(72) Inventor: Madan Marshal, Alsip, IL (US)

(73) Assignee: AMLED Technologies, Inc., Itasca, IL

(US)

(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

(21) Appl. No.: 14/997,708

(22) Filed: Jan. 18, 2016

(51) Int. Cl.

F21V 21/116 (2006.01)

F21V 15/01 (2006.01)

F21V 21/108 (2006.01)

F21S 8/08 (2006.01)

F21V 19/00 (2006.01)

F21V 23/00 (2015.01)

F21Y 101/02 (2006.01)

(52) U.S. Cl.

(58) Field of Classification Search

2131/10; F21W 2131/101; F21W 2131/103; F21W 2131/105; F21W 2131/107; F21W 2131/109

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

3,888,446	A *	6/1975	O'Brien F16B 7/0486
			248/230.1
8,585,258	B2 *	11/2013	Ham F21V 29/20
			362/294
9.163.823	B2*	10/2015	Choksi F21V 29/2206
			Lin F21S 8/06
			315/312
2015/0070923	A1*	3/2015	Kadowaki F21S 48/1104
2013/00/0923	411	3/2013	362/517
2015/0260362	A 1 *	0/2015	Koga F21V 19/045
2013/0200302	A1	9/2013	2
			362/362

FOREIGN PATENT DOCUMENTS

IT	WO 2015063807	A1 '	* 5/2015	F21	S 8/086
TW	DE 102013100026	A1 3	* 7/2014	F21	V 25/02

^{*} cited by examiner

Primary Examiner — Robert May (74) Attorney, Agent, or Firm — Witters & Associates; Steve Witters

(57) ABSTRACT

An LED street light comprising a housing having a support arm extending from a light emitting portion is presently disclosed. The support arm is configured and disposed to tool-lessly fastened and unfastened to and from a street light post. An LED PCB having an array of LEDs is tool-lessly removably held in the light emitting portion of the LED street light. A tool-lessly removable driver is housed in the LED street light. A method of installing the street light of the present disclosure to a light post is also disclosed herein.

17 Claims, 14 Drawing Sheets

